

MAIL STOP PCT

Page 2

Attorney Docket: 26752U

REMARKS

The above amendments have been made to remove multiple dependencies from the claims and to conform them to U.S. practice. No new matter has been added.

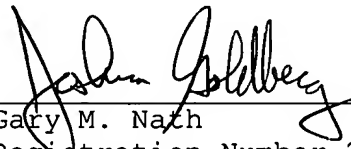
Respectfully submitted,

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Date: April 2ⁿ, 2005

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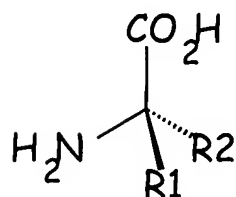
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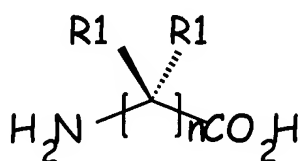
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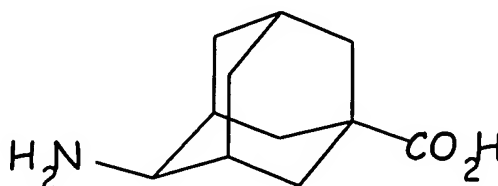
1. (original) An oligomer or polymer selected from the group comprising:
 - (a) an oligomer or polymer comprising at least two π -conjugated amino acid subunits; and
 - 5 (b) an oligomer or polymer containing one or more π -conjugated amino acid subunits that are optically, electrically or electronically active.
2. (original) The oligomer or polymer according to Claim 1, wherein the oligomer or polymer or oligomer is straight.
- 10 3. (original) The oligomer or polymer according to Claim 1 wherein the oligomer or polymer is branched.
4. (currently amended) The oligomer or polymer according to ~~any one of Claims 1 to 3~~ Claim 1 comprising one or more non-conjugated segments.
5. (original) The oligomer or polymer according to Claim 4 comprising
- 15 one or more non-conjugated segments selected from the group comprising molecular structures 12, 13, or 14:



(12)



(13)

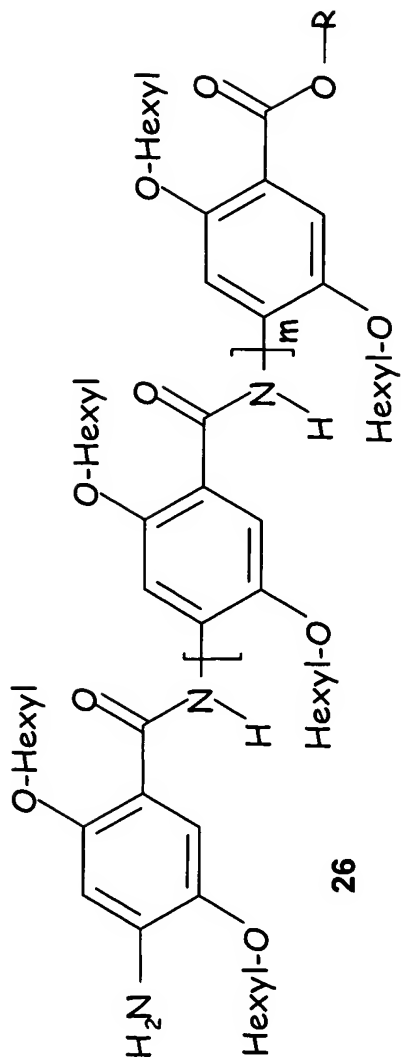


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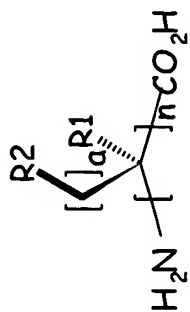
6. (currently amended) The oligomer or polymer according to ~~any one of Claims 1 to 5~~ Claim 1 further comprising one or more dopeable segments.
- 20 7. (original) The oligomer or polymer according to Claim 6 wherein the oligomer or polymer is the molecular structure of Fig. 12a.
8. (currently amended) The oligomer or polymer according to ~~any one of Claims 1 to 7~~ Claim 1 comprising one or more photoreactive light absorbing subunits.

9. (currently amended) The oligomer or polymer according to ~~any one of the Claims 1 to 8~~ Claim 1 comprising one or more light emitting molecules.

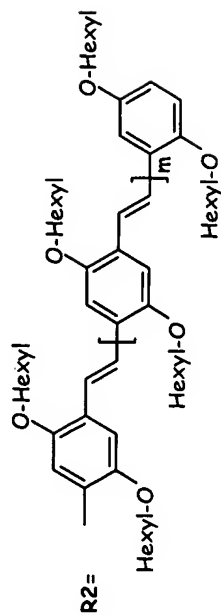
10. (original) The oligomer or polymer according to Claim 9 selected
5 from the group comprising molecular structures **25, 26, 27, and 28:**



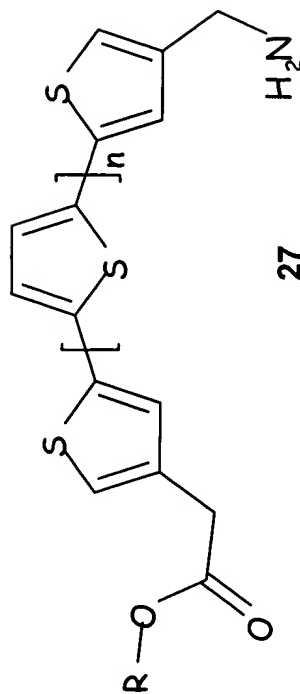
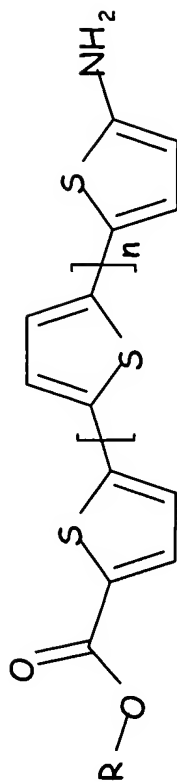
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11. (currently amended) The oligomer or polymer according to ~~any one of the previous claims~~ Claim 1 further comprising a recognition moiety.

12. (currently amended) The oligomer or polymer according to ~~any one of the previous claims~~ Claim 1 comprising one or more π -conjugated amino
5 acid subunits that are optically, electrically or electronically active wherein the active subunits are embedded in the skeleton or backbone of the molecule.

13. (currently amended) The oligomer or polymer according to ~~any one of the previous claims~~ Claim 1 comprising one or more π -conjugated amino
10 acid subunits that are optically, electrically or electronically active wherein the active subunits are attached as subunits to the skeleton or backbone of the molecule.

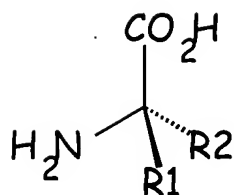
14. (original) An optical, electronic or electric device comprising oligomers and/or polymers having one or more π -conjugated amino acids
15 that are optically, electrically, or electronically active.

15. (original) The device according to Claim 14, wherein the oligomer or polymer or oligomer is straight.

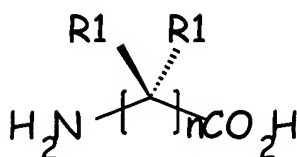
16. (original) The device according to Claim 14 wherein the oligomer or polymer is branched.

20 17. (currently amended) The device according to ~~any one of Claims 14 to 16~~ Claim 14 wherein the oligomers or polymers comprise one or more non-conjugated segments.

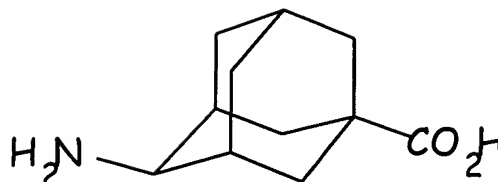
18. (original) The device according to Claim 17 wherein the oligomers or polymers comprise one or more non-conjugated segments selected from
25 the group comprising molecular structures **12**, **13**, or **14**:



(12)

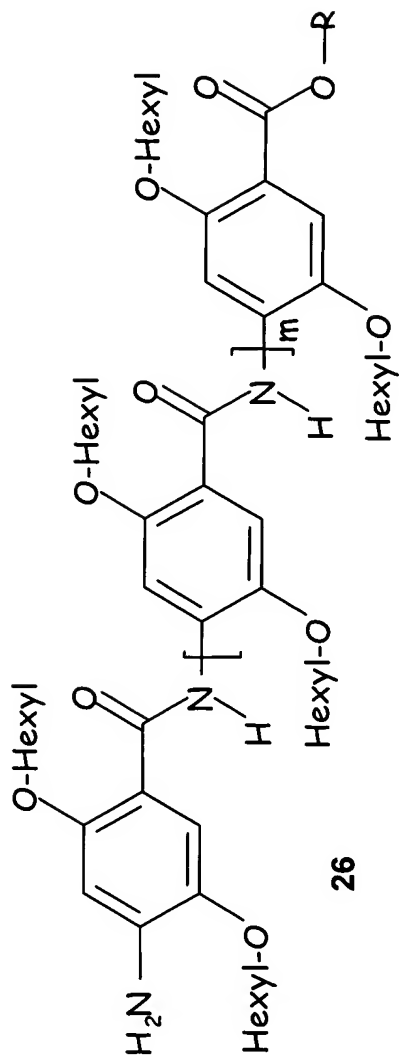


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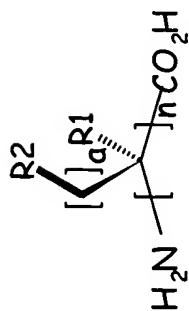


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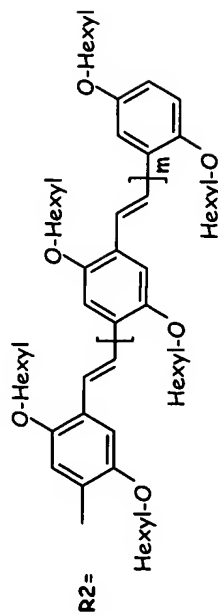
19. (currently amended) The device according to ~~any one of Claims 13~~
5 ~~to 18~~ Claim 13 further wherein the oligomers or polymers comprise one or
more dopeable segments.
20. (original) The device according to Claim 19 wherein the oligomer
or polymer is the molecular structure of Fig. 12a.
21. (currently amended) The device according to ~~any one of Claims 13~~
10 ~~to 20~~ Claim 13 wherein the oligomers or polymers comprise one or more
photoreactive light absorbing subunits.
22. (currently amended) The device according to ~~any one of Claims 13~~
~~to 21~~ Claim 13 wherein the oligomers or polymers comprise one or more
light emitting molecules.
- 15 23. (original) The device according to Claim 22 selected from the
group wherein the oligomers or polymers comprise molecular structures
25, 26, 27, and 28.



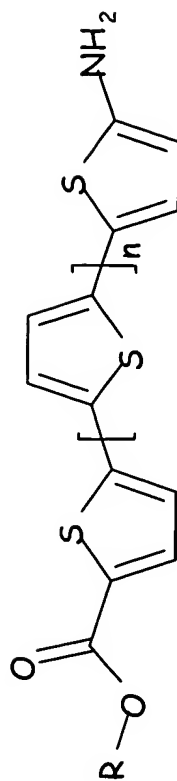
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24. (currently amended) The device according to ~~any one of the previous claims~~ Claim 1 further wherein the oligomers or polymers comprise a recognition moiety.

25. (currently amended) The device according to ~~any one of Claims 13 to 24~~ Claim 13 wherein the oligomers or polymers comprise one or more π -conjugated amino acid subunits that are optically, electrically or electronically active wherein the active subunits are embedded in the skeleton or backbone of the molecule.

26. (currently amended) The device according to ~~any one of Claims 13 to 24~~ Claim 13 wherein the oligomers or polymers comprise one or more π -conjugated amino acid subunits that are optically, electrically or electronically active wherein the active subunits are attached as subunits to the skeleton or backbone of the molecule.

27. (currently amended) The electronic device according to ~~any one of Claims 13 to 26~~ Claim 13 wherein the device is selected from the group comprising:

- (a) a wire;
- (b) a resistor;
- (c) a diode;
- (d) a pn junction;
- (e) a transistor;
- (f) a field effect transistor;
- (g) a photovoltaic cell;
- (h) a photosensor;
- (i) a light emitting diode;
- (j) a DNA chip; and
- (k) a sensory chip.